



US009636820B1

(12) **United States Patent**
Strickland

(10) **Patent No.:** **US 9,636,820 B1**
(45) **Date of Patent:** **May 2, 2017**

- (54) **PINECONE COLLECTING DEVICE**
- (71) Applicant: **Phillip Strickland**, Swartz Creek, MI (US)
- (72) Inventor: **Phillip Strickland**, Swartz Creek, MI (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: **14/938,188**
- (22) Filed: **Nov. 11, 2015**
- (51) **Int. Cl.**
F41B 13/10 (2006.01)
B25J 1/04 (2006.01)
B25J 15/00 (2006.01)
- (52) **U.S. Cl.**
CPC **B25J 1/04** (2013.01); **B25J 15/0071** (2013.01)
- (58) **Field of Classification Search**
CPC . B25J 1/04; B25J 15/0071; E01H 2001/1233; E01H 1/12; E01H 2001/1293; A01D 7/10; A01D 9/06
USPC 294/182, 61, 50.5, 50; 56/400.08, 400.1
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 1,053,418 A * 2/1913 Martin E01H 1/12 294/50.5
1,801,084 A * 4/1931 Huie A47G 21/023 294/61
2,500,647 A * 3/1950 Schulthess E01H 1/12 294/50
2,552,467 A * 5/1951 Thomas E01H 1/12 294/61

- 2,695,188 A * 11/1954 Nutt E01H 1/12 294/61
2,738,215 A * 3/1956 Thompson E01H 1/12 294/61
2,800,354 A * 7/1957 King E01H 1/12 294/50.5
2,804,336 A * 8/1957 Thompson A01D 11/00 294/50
3,633,958 A * 1/1972 Mesrobian A01D 51/00 294/50
4,081,192 A * 3/1978 Jones A01D 9/06 294/61
4,214,741 A * 7/1980 Crawford B65H 3/22 271/18.3
4,422,681 A * 12/1983 Laroche E01H 1/1206 294/1.4
4,791,995 A * 12/1988 Hochlan, Jr. A01B 1/243 111/99
4,856,835 A * 8/1989 Pacione A47L 13/00 15/105
5,004,283 A * 4/1991 Sullivan A01B 1/16 294/50

(Continued)

Primary Examiner — Gabriela Puig
(74) *Attorney, Agent, or Firm* — Dinsmore & Shohl LLP

(57) **ABSTRACT**

A device configured to collect and dispel pinecones is provided. The device includes a handle, and a collecting head. The collecting head includes a plurality of prongs extending outwardly from an outer surface of the head. A sliding block having a plurality of holes configured to receive a corresponding prong is slidably attached to the shaft. A biasing member having one end fixedly attached to the shaft and the other end attached to the sliding block continuously urges the sliding block against the head so as to allow the prongs to protrude through the respective holes. Accordingly, the device is configured to stick a plurality of pinecones wherein the sliding block may be pushed so as to displace the sliding block forward of the head pushing the pinecones off the prongs and into the receptacle.

7 Claims, 8 Drawing Sheets

